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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/939,208	08/24/2001	Gregory E. Agoston	05213-0852 (43170-263550)	3573
7:	590 09/08/2005		EXAMINER	
John S. Pratt			QAZI, SABIHA NAIM	
KILPATRICK Suite 2800	STOCKTON LLP		ART UNIT	PAPER NUMBER
1100 Peachtree Street			1616	
Atlanta, GA 30309-4530			DATE MAILED: 09/08/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/939,208 AGOSTON ET AL.		
	Office Action Summary	Examiner	Art Unit	
	The MAN INC DATE of this communication of	Sabiha Qazi	1616	
Period fo	The MAILING DATE of this communication a or Reply	ippears on the cover sheet wi	n the correspondence address	
THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the may be adequated term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reserve within the statutory minimum of thirty od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status	_	, , ,		
1)⊠	Responsive to communication(s) filed on 3	121/03		
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ TI	his action is non-final.		
3)□	Since this application is in condition for allow closed in accordance with the practice unde	·		
Dispositi	on of Claims			
5) 6) 7)	Claim(s) <u>94 AND 96</u> is/are pending in the ap 4a) Of the above claim(s) is/are withd Claim(s) is/are allowed.  Claim(s) <u>94 and 96</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and	rawn from consideration.		
Applicati	on Papers			
•	The specification is objected to by the Exami			
10)	The drawing(s) filed on is/are: a) a			
	Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	. ,	
11)	Replacement drawing sheet(s) including the corn The oath or declaration is objected to by the	· -		
Priority u	ınder 35 U.S.C. § 119			
a)[	Acknowledgment is made of a claim for forei  All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the priority docume  application from the International Bure  See the attached detailed Office action for a life	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachmen	t(s)			
2) Notic 3) Inform Pape	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application (PTO-152) 	

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### Final Rejection

Acknowledgement is made of the response filed on 3/21/2005. Amendments are entered. Rejection under 35 U.S.C. 102(b) as being anticipated over Fishman et al., AN CA54: 18587 f CAOLD, (compound of RN 52717-98-3 HCAOLD, estradiol, 2-methoxy, 17 acetate) is withdrawn because claims are amended. Claims 94 and 96 are pending. No claim is allowed.

### Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 94 and 96 are rejected under 35 U.S.C. 102(b) as being anticipated by TANABE et al., US Patent 6,046,186. See compound 70 in col. 49. Registry number is RN 229486-18-4 HCAPLUS.

## Claim Rejections - 35 USC § 103 1st Rejection

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 94 and 96 are rejected under 35 U.S.C. 103(a) as being unpatentable over RAM et al., United States Patent No. 6,136,992. Prior art teaches 2-alkoxy estradiols which embraces applicants claimed invention. See the entire document especially formula (VI) in col. 6 where R1 represents lower alkyl group. See also compound of formula (IX) in col. 7 where R10 represents H or an amine-protecting group. See also compound of RN 302799-36-6P which is estra-1,3,5-triene-3-ol, 17-amino-2-ethoxy-, hydrochloride. See compound (20) in Fig. 3.

Instant claims differ from the reference in claiming 2- methoxy estradiol derivative having amino group at 17 position wherein the reference teaches 2-alkoxy group and amino group at 17-position.

It would have been obvious to one skilled in the art to prepare additional beneficial estradiol derivatives by selecting any 2-alkoxy group at 2-position because prior art teaches the same. In present case Applicants have selected a 2-methoxy group. Prior art provides motivation to select any member from alkoxy group.

In absence of any criticality/and or unobvious property presently claimed invention is considered *prima facie* obvious to one skilled in the art.

In the light of the forgoing discussion, the Examiner's ultimate legal conclusion is that the subject matter defined by the instant claims would have been obvious within the meaning of 35 U.S.C. 103(a).

# Claim Rejections - 35 USC § 103 2nd Rejection

Claims 94 and 96 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cushman et al., AN 1997:436019, HCAPLUS, J. of Medicinal Chemistry (1997), 40(15), 2323-2334. The reference discloses estradiol derivatives of 2-ethoxy estradiol with modification at 17-position with amino group. See RN 192062-30-9 HCAPLUS. Hydrochloride salt of the same compound is also disclosed (RN 192062-27-4P).

The prior art of record is drawn to structurally similar compounds, which differ, from the compounds embraced by the instant claims in that they are homologues. Prior art discloses 2-ethoxy compound whereas instant invention claims 2-methoxy compounds. The skilled artisan would have been motivated to modify the teaching of the prior art to prepare homologues because it is recognized in the art that homologues are structurally similar and would be expected to possess similar properties. *Ex parte Henze* (POBA 1948) 83 USPQ 167.

Compounds that differ only by the presence of an extra methyl group are homologues. Homologues are of such close structural similarity that the disclosure of a compound renders prima facie obvious its homologue.

The homologue is expected to be prepared by the same method and to have the same properties and use. This expectation is then deemed the motivation for preparing homologues.

See In re Wood 199 USPQ 137; In re Hoke 195 USPQ 148; In re Lohr 137 USPQ 548; In re Magerlein 202 USPQ 473; In re Wiechert 152 USPQ 249; Ex parte Henkel 130 USPQ 474; In re Fauque 121 USPQ 425; In re Druey 138 USPQ 39.

In absence of any criticality/and or unobvious property presently claimed invention is considered *prima facie* obvious to one skilled in the art.

In the light of the forgoing discussion, the Examiner's ultimate legal conclusion is that the subject matter defined by the instant claims would have been obvious within the meaning of 35 U.S.C. 103(a).

#### Conclusion

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sabiha Qazi whose telephone number is (571) 272-0622. The

examiner can normally be reached on any business day.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Kunz can be reached on (571) 272-0887. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sunday, August 21, 2005

SABIHA QAZI, PH.D

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